

**Improved Methods for Enhancing Broadcast Media Advertising**

This invention is a confirmation-in-part of Serial Number 09/947,730, filed 9/6/01, which relates to and claims priority based on co-pending U.S. provisional application Serial No. 60/253,572  
5 filed 11/28/00.

**Field of the Invention:**

The invention relates to methods and apparatus for enhancing the value of media advertising and for review of the advertising, and more particularly to methods and apparatus for advising advertising clients about the scheduling of their ads prior to broadcast; for facilitating the review of ad schedules by account representatives; for checking for errors or omissions in a traffic and billing system or the like, such as inadvertent media deletion; for assessing the accuracy of media insertion techniques; and/or for assessing actual advertising exposure as a result of the broadcast media insertion of ads, based in part on Schedule Logs/Inserter Logs/Event Logs or the like and verified log files, or the like, and rating service information.

**Background of the Invention:**

The sale of advertising by communication companies is multi-faceted. Guaranteed specified locations and times for an ad vis-à-vis communication media are sold for the highest price. Advertising contracts for locations and times within general ranges on communication media sell for lesser prices.

A “traffic and billing system” creates Schedule Logs/Inserter Logs (essentially two words for the same thing) that schedule a communication company’s advertising clients’ ads for a coming period, as per all of the client contracts. The Schedule Log satisfies contracts guaranteed for specified inserter locations and times. The times remaining at inserter locations are filled into the Schedule Logs with ads of advertisers who opted for less certainty with a lower price. Some advertisers, thus, may get their ads run at a prime time and in a prime inserter location even though they paid a lesser price.  
20 However, such exposure is not guaranteed. The uncertainty involved as to the actual scheduling of ads, given the contract a client elected, makes a preview of ad scheduling both interesting and valuable to advertising clients. The advertising clients’ account executive may also find such a preview helpful. Review of “as-run” reports of actual ad exposure is also valuable and helpful, to clients and account  
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executives.

Furthermore, traffic and billing systems have been known to inadvertently omit inserters, e.g. a channel or network in a geographic zone. It is valuable to catch such omissions. Inserters, also, do not execute Schedule Logs perfectly. Thus, a RunRate efficiency report is helpful, reporting upon the execution efficiency in regard to a Schedule Log/Inserter Log. Such report can be general or tailored to advertising clients. A RunRate report could be valuable to a communications company, to an account executive and/or to an advertising client.

Prior to the present invention, when a client advertiser or broadcast media wanted advance notice of the times/channels/stations/sites scheduled for airing that client's ads, the request entailed significant human intervention. The same is true for "as-run" reports. ("Broadcast" is used herein to indicate any commercial communication system, including transmission by cable, line, satellite, antenna, or the like, free or for pay, including transmissions over the Internet.) Typically, a person associated with a communication company would first need to review a record of which clients wanted such advance notice of scheduled times and locations for ad airing, or "as-run" reports. The person would then typically manually request a "traffic and billing system" (or some equivalent) to download a scheduled time/site report or verified run report for or including that client. The person would then prepare to the extent necessary and fax the report to the client. See Figure 1A illustrating a typical prior art system. In Figure 1A, HQ refers to "human question"; HR refers to "human request"; HF or HE refers to "human faxing" or "human emailing".

The instant invention in one embodiment automates and improves upon such prior art systems. The instant invention electronically queries whether there are advertising clients that request advance notification of scheduled times (and sites or inserter locations, to the extent relevant) for ads. The instant system is adapted to automatically electronically communicate with an electronically stored record of ads scheduled to be "aired", typically created by one of a variety of "traffic and billing systems" or their equivalent. Given access to the electronic record, the instant system produces a client advisory report of scheduled times (and sites and other pertinent information if relevant and desired) for scheduled ads in advance of broadcast (e.g. prior to at least some significant broadcast) and preferably automatically faxes the report to the client. Alternately, the report could be sent

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automatically by e-mail or other means. For instance, the report could be posted on the Internet for client access, preferably by a password.

In addition to performing the above function, the system of the instant invention can send a master advisory report of scheduled broadcast times and ads (and sites, etc. if relevant) to an account representative of the client for his/her review and assessment. Furthermore, the instant system can be used to check for inadvertent errors by a traffic and billing system or the like, such as the omission of media like a channel or a station or a site, in the Schedule Logs/Inserter Logs produced by the system. The instant system, with access to verified files or the like, can also produce Run Rate summaries, by company, by inserter or by advertising client. In the latter instance the details of any run failure could also be reported.

In addition to an advisory report of scheduled times automatically sent to a client or a set of clients, a verification module can be used to produce "as-run" reports. With this module in a preferred embodiment schedule files, usually text files, are combined with verification files, also usually text files, to produce a file or a database with a client's "as-run" original schedule information along with "as-run" times for a particular date. Information from a rating service, such as Nielson ratings, can be combined in order to also give a client an estimate of ad exposure.

The verification "as-run" information is preferably automatically sent to client(s) via fax and/or email, similarly to the transmitting of scheduled times reports to clients. The verification report gives a client a report of all correctly run spot(s) for the previous day(s) or selected time period, and possibly of an estimate of the ads actual exposure.

A scheduled log text file is typically produced by a traffic and billing system. A verification log text file is typically produced by a system's commercial insertion equipment. Both files are preferably copied and combined into a single database by the AirCheck program. Ratings service files, such as Nielson ratings, are typically transmitted to broadcasters by media the subsequent day. A client database in an AirCheck type program is preferably automatically retrieved to access the client names that have requested verification times reports or the like. The information can then be automatically compiled and sent out by fax and/or email for each selected client.

**Summary of the Invention:**

The invention includes improved methods and apparatus for communicating in advance to those concerned, including in particular advertising clients, the scheduled timing for ad broadcasts. Ad broadcasts refer to ads offered on or over broadcast media. The term broadcast media covers TV, 5 radio, and the like communications, including the Internet. Broadcast covers communications transmitted by literal broadcast and/or by cable, by line, by satellite, by antenna, by Internet, etc. Use of the phrases electronically accessing, electronically generating and/or electronically transmitting indicates an automatic management of a process, as by a computer program. Media is used herein to refer to a particular channel, or a station in a geographic zone, or an Internet site or the like. "Title" is 10 used herein to refer to some identifier of a particular ad or copy or spot or banner. An inserter, when the term is used, paradigmatically refers to hardware that inserts advertising into a particular media broadcast system.

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The method and apparatus of the instant invention includes electronically accessing, including in advance, an electronically stored record containing (explicitly or implicitly) media, times and titles for ads to be broadcast in a given upcoming period; electronically generating a report including, directly or indirectly, at least the time for the broadcast of at least one client ad for a future period; and electronically transmitting the report to a client in advance of or prior to broadcast. (A client should be understood to include the client's agents or designees.) The method and apparatus can include transmitting report information to a client account representative for review and approval. The method and apparatus can also include providing means for checking for scheduling errors, such as the inadvertent omission of inserters from Schedule Logs by a traffic and billing system, a historic problem, and for reporting RunRate efficiency.

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The method of transmitting includes in particular transmitting by fax and/or by e-mail, the preferred means of transmitting. Transmitting can also include making available through networks and the Internet.

Preferably electronically stored records are created by traffic and billing systems or the like and the instant system is capable of recognizing and reading records created by a variety of such systems or their equivalents.

The method and apparatus of the instant invention also includes electronically accessing at least one electronically stored record indicating, directly or indirectly, at least media, times, clients and titles for ads broadcast in a past period. A client report can be automatically generated including at least a time of broadcast for an ad in a period, preferably by combining information from a Schedule Log or the like and a verified file log or the like. The report is preferably automatically transmitted to advertising clients. Preferably the method includes automatically generating and transmitting a plurality of reports. The apparatus preferably includes a system for assessing broadcast advertising including means for electronically accessing a broadcast verified file, and preferably a Schedule Log file; means, in communication with the verified file, for automatically compiling a client report by advertising clients; and means, in communication with the client report, for automatically transmitting the report to a client. The system may include means for accessing a Rating service file.

**Brief Description of the Drawings:**

A better understanding of the present invention can be obtained when the following detailed description of the preferred embodiment is considered in conjunction with the following drawings, in which:

Figure 1A indicates a typical prior art manual system that requires significant human intervention, while Figure 1B indicates a system in accordance with the present invention.

Figures 2A and 2B indicate, on a supervisory level, work flow of a preferred embodiment of the instant invention, the preferred embodiment referred to as the AirCheck System.

20 Figures 3A and 3B illustrate a Fax Times Module flow diagram of a preferred embodiment of the instant invention, the AirCheck System, including both schedule reports and verification reports.

Figure 4 illustrates a Check Data Module flow diagram option of a preferred embodiment of the instant invention.

Figure 5 illustrates a Print Schedules Module flow diagram option of a preferred embodiment of the instant invention.

Figure 6 illustrates a general flow diagram of a preferred embodiment program of the instant invention.

Figure 7 illustrates the interaction of a preferred embodiment of the present invention with a traffic and billing system, a schedule log and an insertion system of a broadcaster.

Figure 8 illustrates the date range window with comment attachment.

Figure 9 is an example of a client report with a banner.

5 Figure 10 illustrates a sample of missing files shown to user.

Figure 11A illustrates a RunRate Module Selection window.

Figure 11B illustrates a RunRate Module Flow diagram.

Table 1A and 1B illustrate a sample portion of a Text File of a Schedule Log - a Single Channel Log, and a sample portion of a verified file.

10 Table 2 illustrates a sample portion of a Text File of a Schedule Log - All events for a Single Day Log.

Tables 3A, 3B, 3C and 3D illustrate sample client reports.

Table 4 illustrates an inserter data file.

Table 5 illustrates raw parsed data.

Tables 6 and 7 illustrate RunRate reports.

Tables 8A and 8B show file title and single file configurations.

#### **Detailed Description of Preferred Embodiments:**

One preferred embodiment of the instant invention is referred to herein as the AirCheck program. This program ascertains an advertising client's scheduled spots from a review of Schedule Logs (or Event Logs as the files are sometimes referred to) and faxes (or emails) their times (and sites and other pertinent data, to the extent relevant and/or requested) to advertising clients of a communications company. See Figure 1B. The preferred program provides for starting and stopping on any scheduled day or days (or relevant periods). It is possible with the preferred system to additionally alert clients as to when their spots are no longer scheduled and their advertising has ceased, in whole or in part. As enhancements, modules are in place to discover and display scheduling errors, such as inadvertently missing media from a set of Schedule Logs and/or to print out ad schedules for an upcoming period for review by a client's account representatives. Optional modules may prepare RunRate efficiency reports, by company, by inserter and/or by advertising client.

The instant program has the advantage of offering advertising clients increased value in their association with a communications company. The system assists advertising clients in being able to witness and experience, or have someone else witness and experience, their advertising on a broadcast system as it airs. The preferred system further allows an operator to double-check Schedule Logs/Inserter Logs against inserter lists for inadvertent errors, such as dropping an inserter, and allows for an account representative to monitor a client's allotted time and inserter locations.

A communications company, such as a television broadcast system, radio broadcast system or cable system, typically uses one of several commercially available "traffic and billing programs" to schedule ads or spots for one or for a variety of media at a variety of times and possibly a variety of geographical locations over a designated period for a set of advertising clients, as per the clients' contacts. A traffic and billing system, at least shortly before a designated period begins, produces a record (such as a Schedule Log or an Event Log and/or an Inserter Log) of all scheduled spots for ads on the set of media the communications company manages within a next designated period.

This record is stored electronically. Various inserter hardware systems corresponding to various media and zones have access to the Schedule or Event Logs and/or Inserter Logs in order to find and locate the scheduled ad spots and insert the proper ad spots at the appropriate time in the appropriate channels or stations in the proper zones. Typically the formats for the records created by traffic and billing systems are relatively standardized. Embodiments of the present invention are designed to electronically access such electronically stored records created by such traffic and billing systems or the like, typically but not necessarily stored in a standardized format. In accordance with preferred embodiments, the program of the instant invention accesses a record, copies the record and culls from the record needed data. In accordance with client requests, a report can be generated for each requesting advertising client exhibiting, for the next relevant period, the ads of a client to be broadcast, the media of the broadcast if relevant, and the timing of the broadcast. Other information as pertinent or requested may be included. A sample page of such a report, as may be faxed or emailed to a client, is illustrated in Table 3. The report of Table 3 indicates the ad or spot both by code and by title.

Alternately, if a traffic and billing system is capable by itself of generating a report by advertiser of scheduled spots for an upcoming period, one embodiment of the instant invention may connect an AirCheck Program residing on a workstation or the like to a traffic and billing system residing on a network server or the like. The AirCheck program would be configured to request or to emulate a 5 human keystroke request for such a report, as illustrated in Figure 7, in order to have a traffic and billing system report generated and forwarded to it.

As more particularly indicated in Figure 7 an AirCheck Program could reside in a workstation or terminal W. The workstation or terminal W could be connected to a traffic and billing system TBS residing on a network server or the like. The traffic and billing system TBS is illustrated as creating a 10 daily Schedule Log using as input entered client requested spots and client contract information. The Schedule Log SL could reside on a hard drive HD or network or the like. In such embodiments an AirCheck Program ACP could directly have access to Schedule Log SL on the hard drive HD or network or the like. The AirCheck Program ACP is shown producing a client report R. A commercial inserter system CIS, which is a hardware system, should also have access to the Schedule Log SL (or 15 Inserter Log) on the hard drive HD or network or the like.

It should be understood that a traffic and billing system TBS might create several hundred Schedule Logs SL's to correspond to several hundred individual inserters. A Schedule Log and an Event Log generally refer to the same log. An Inserter Log generally contains the same information as a Schedule Log or Event Log but in different text or format. For our purposes, the words are to be 20 understood to be used interchangeably.

Table 2 illustrates a portion of a text file of a Schedule Log (sometimes referred to as an Event Log) of a traffic and billing system, including all events for a single day for a communications company. Table 1A illustrates a portion of a text file of a Schedule Log illustrating a single channel or single inserter. Table 2 is a multiple inserter log which illustrates the inserter, the time of day, the 25 advertiser and the title of the ad. The ad code number is also illustrated. The single channel log of Table 1 also illustrates the advertiser together with the code number and the title of the ad.

In a preferred embodiment, client data is submitted to an AirCheck Program, as is inserter data, the client data including which clients request a scheduled times report. The client data might include

more detailed information or specialized reporting requests. Inserter data might include identification numbers or letters identifying the advertised channel and area of that advertised channel to both the traffic and billing system and the commercial insertion system. The inserter data might also include descriptions of advertised channels and areas as well as the location of the directory occupying the  
5 daily event or schedule logs.

The AirCheck Program can be engaged when the Schedule or Event Logs are completed and available for the next reporting period, such as for the next day. See Figure 2. Figure 2 illustrates work flow with an AirCheck Program implemented. A system would be implemented such that the AirCheck Program ACP is engaged after the traffic and billing system has completed the next day's  
10 logs such as Schedule Logs SL. The AirCheck Program ACP queries Q whether there is a client that requests scheduled times for the next period, the request not having yet been satisfied. If so the AirCheck Program compiles the appropriate data for the client and faxes the schedule to the client. The schedule at least contains the times at which a client's ad is to be displayed.

Figure 3 illustrates by flowchart the operation of a Fax Times Module FTM of a preferred embodiment of the instant invention in more detail. The program retrieves a date range DR for the report and secures from event log files EL (or Schedule Log) a copy of the record covering the day or period DR specified. In the preferred embodiment the Event Log EL is copied to a database where data related to specific fields is parsed to produce ELP. The Fax Times Module FTM program then retrieves a client file CF log and opens a fax software FS. Given a valid client request for the date  
20 range, the program searches the event log file ELF for existing times of ads. (Even if no time exists for an ad of a client in the period, a client has the option of receiving a notification.) Data regarding the times found is organized and sent to the fax software FS where an assimilated report is faxed (or e-mailed) to the client. See Table 3.

A Check Data Module CDM is offered as an enhancement. See Figure 4. Past traffic and  
25 billing systems periodically failed to create all necessary inserter text files for the next day. Check Data locates which text files are missing for the next day by comparison of existing files with a list of inserters. The missing files, if any, are presented to a screen where an operator can redo the procedure for the missing text file. The Check Data Module refers to an inserter database ID for information in

regard to all possible or eligible inserters. An inserter is a station or channel in a given zone. The inserter files ID are compared against the Event Log ELP files to detect the off chance that a given inserter might have been inadvertently omitted by the traffic and billing system TBS in the days Event Logs EL. Any omissions could be printed to a screen for action to be taken. Figure 10 is an example  
5 of the Check Data Module screen.

Figure 5 illustrates a further enhancement of the instant system. A Print Schedule Module PSM prints a schedule of all ads per client for all times for all inserters for a next given report period. Such printed schedule may be distributed to account managers who can check to determine if their advertising clients are receiving the agreed upon advertising of their contract.

10. Figure 6 illustrates that a preferred embodiment AirCheck Program in addition contains the capability to add or edit client information CI and add or edit inserter information II. The client information CI and the inserter information is used in client files CD and inserter files ID in order to generate client reports and to check inserter information against event logs.

15. The following illustrates a check missing data routine. Table 4 illustrates an example of an inserter file ID. Active networks for San Antonio zone are listed for example. The AirCheck Program has been pre-configured during installation to anticipate which traffic and billing program TBS is being used. The traffic and billing system of San Antonio, for instance, may put all event files for all networks into one large file EL. After a date range DR has been entered by an operator and a check missing data function has been requested, the AirCheck Program starts to compare the inserter file ID  
20 with the event log EL.

25. Since San Antonio has a large file system, the program looks for a drive where the Event Log EL data is located. This may be taken from a location field of the inserter database ID. Thus, the Event Log EL files are located in the P drive, as indicated by Table 4. The EL file may start with EL which may be the first two characters of the file. (See Table 8A) This is followed by the two digit year, two digit month and two digit day. The last characters of the file may be the letter Z plus a two digit zone or area number. (See Table 8A) E.g., in the case of October 17 for zone 1, the program would look and get a file indicated by: "P:EL001017.Z01". Once the file is found, the event data is located and parsed to ELP. Table 5 gives an example of the raw parsed data. The left two characters

in Table 5 are the inserter numbers. The AirCheck Program compares the inserter number from the inserter data previously entered (Table 4) against the two left characters of the raw data.

Another traffic and billing system may use a separate file for each network in each zone, e.g., for each inserter. The AirCheck Program uses the inserter data previously entered (Table 4) to find these files. In this system the first character would be the month. (See Table 8B) The next two characters are a two digit day of the month, followed by a two digit inserter number. The next three characters are a three digit zone number. The extension can be any three characters determined by the traffic and billing system. In the instant example, the system uses "SCH" meaning a schedule file. The program looks for the proper file and using the same data, October 17, the program searches for files in this traffic and billing system. Using the above example, the program searches for COMEDY CHANNEL in Drive P in zone 1: P:\A1708001.SCH.

Comment is a further tool of preferred embodiments for communication with all clients that participate in having their schedules transmitted to them. The AirCheck communication company user can add "comments" C to a comment window CW that can be opened in an AirCheck sub-menu before the advertiser client schedules are sent to the client. The comment C is typically a stored text file that is added to the bottom for the fax or E-Mail. Figure 8 illustrates the position of the menu and an example of a comment in Figure 9 which could be regarded as an ad or a banner for the communications company.

There are two Internet uses for AirCheck. The first is to send all schedule data indexed by client advertisers to a web server. That web server would allow a client advertiser with the appropriate login and password to view and/or print their own schedule data to a local printer.

The second is for tracking banners on web pages. A means for compiling an Internet Schedule Log likely does exist or will exist. A system for an Internet site analogous to an inserter, and instructed by an Inserter Log or its analogy, likely does or will exist. Such system would insert client ad "banners" into banner windows of an Internet site according to client contracts. On the Internet, the timing of the advertising could be controlled by "hits". That is, a set of banners could be rotated in accordance with hits to the site. In such case the schedule report to a client could report, to the extent pertinent and relevant, the site, the banner or ad copy and the banner rotation rate. An Internet "traffic

and billing" or similar such system could produce a schedule for the planned locations and times for advertisers' banners. As with other communications companies an AirCheck program or the like could access the schedule and produce a report per advertiser for a coming relevant period, giving locations and timing for banner exhibit, and transmit the report to the client advertiser. The information could  
5 be sent to the advertiser by AirCheck via fax and/or e-mail and/or be posted to a website. An enhanced version could track the amount of "hits" (persons who look at the web page) and "click throughs" (persons who click on the banner) from the traffic and billing or similar system and send that historical information to the advertiser through AirCheck via fax and/or email and/or website.

A further option provided by a preferred embodiment is a RunRate module. The user  
10 determines if it wants to select a specific day for a daily report or a number of days in the past for a multiple day summary. See Figure 11A. On a daily report, after the day is selected the program imports all schedule files SL. The program also imports all "as-run" or verified files VF from the commercial inserter. Comparison is made between the schedule file and the verified file. See Figure  
11B.

All scheduled spots are summed. All verified spots are summed. See Table 6. The first line is the total of scheduled spots, total of verified spots and then a percentage of verified spots divided by scheduled spots. The rest of the report shows every spot that failed to air correctly according to time, network and zone.

The multiple day summary gives the percentages for each day requested. See Table 7.  
20 Alternately a RunRate report could be by advertising client. In this case details regarding any specific omission could be furnished. Such report could be interesting to, and thus forwarded to, the company, account representatives and/or an advertising client.

#### Example

The following is an example of how one preferred embodiment of AirCheck works. Presume  
25 Joe's Pool Hall wants ten spots a day on CNN through the local Cable Communication Company. All ten spots will air between the hours of 6:00 a.m. and midnight on CNN during the local three minutes of local advertising time each hour. This contract is for the next two weeks. The Cable Company enters the contract data into a traffic and billing system TBS. See Figure 7.

A traffic and billing system has the advertising contract data entered, produces a daily playlist (an Event Log EL or Schedule Log SL) of all entered advertisers and bills the advertisers for fulfilling the contract by correctly airing spots.

At least one day before, the Event Log (or Schedule Log) for each network is created by the  
5 traffic and billing system: E.g.,

CNN - 10/26/00 - Local Cable Company

| Scheduled Time | Client                      | Spot Number | Length |
|----------------|-----------------------------|-------------|--------|
| 12.29 a.m.     | Local Cable Promo           | 12344       | 30     |
|                | Joe's Pool Hall             | 12988       | 30     |
| 10 12:56 a.m.  | Friendly Ford Dealer        | 21399       | 30     |
|                | Casino Center               | 12811       | 30     |
|                | Local Cable Promo           | 12344       | 30     |
|                | Public Service Announcement | 22443       | 30     |

(See Figure 7)

The rest of the day is repeated as above with different advertisers as well as the nine other spots of Joe's Pool Hall. That will fulfill Joe's Pool Hall contract of ten spots a day.

This list is sent (made available electronically) to a commercial insertion system, which is a set of one or more inserters or a tape compiler (computer program) that will read the list and pull copy for the requested spots from either an active library or archive. The requested spots will be online and waiting for the signal from CNN to play the spots at the designated time.  
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In the first example, the digital insertion system by 12:15 a.m. on October 26 has retrieved and copied spot number "12344 - Local Cable Promo" and spot number "12988-Joe's Pool Hall" from the video library and has both spots ready to play back over the CNN national feed at 12:29 a.m.

The cue tone comes from CNN at 12:27 a.m. Both spots play correctly. (An "As Run" log is  
25 created for the date, containing the same information as the Event Log, plus the exact time each spot aired and that the spot aired correctly.) The insertion system gets and copies the four spots that are scheduled at 12:56 a.m. from the video library.

After midnight the next day the insertion system transfers the "As Run" log back to the traffic and billing system. This log has all the data of the Event Log, but also has the exact time each spot aired. The traffic and billing system compiles a bill for all spots that aired correctly and bills the client accordingly.

Using the above example, the following shows how AirCheck comes into the picture. Joe's Pool Hall has bought ten spots on CNN each day for two weeks. Joe has requested to know his scheduled times before they air. (The traffic and billing system might be able to print a report specific to Joe's Pool Hall showing the scheduled times. But according to the prior art, the necessity for a report for Joe's Pool Hall would have to be humanly noted, the report manually requested and faxed (or e-mailed) with manual assistance.)

The advantage of using AirCheck is that with the program initiated for the day (or automatically days), after the Event Log is created, AirCheck (AC) can access automatically the same text file that is made available to the inserter system. AC would fax not only to Joe's Pool Hall, but also to every other client that has requested an exact schedule times for the next day. This is accomplished without manually compiling the schedule from the traffic and billing system if necessary, printing the schedule or manually faxing (or e-mailing) to each client that airs on the cable or broadcast system.

A verification module for AirCheck preferably starts out by getting "as-run" verification text files from an insertion unit for the selected day(s). Table 3D is an example of a verification text file. It can be seen that the verification file of Table 3D would need to be combined with other information, such as a Schedule Log file like that of Table 1, to correlate client name and spot description with the ad aired information.

Verification file information could also valuably be joined with additional data, such as rating service data, preferably overnight ratings service data. A combined report could then be sent to clients via fax and/or email using the same modules that send out schedule log information reports. Such a report could resemble that of Table 3D. The "rating" and "share" information come from Nielson rating reports. The meaning of the statistics is understood in the art.

In regard to a preferred verification module, figure 1B illustrates how broadcaster insertion equipment typically returns a verified file log (Table 1B) to a traffic and billing system, e.g. for billing purposes. A verified file, typically assumed to be associated with a version of a Schedule Log, indicates times that each ad was actually run. If an ad for whatever reason was not run, that too is indicated.

Table 1B illustrates a sample verified file produced by inserter equipment. The field of the first column is an identification field. The field of the second column indicates the date. The field of the third column indicates the scheduled slot for the break in the broadcast in which the ad is to be inserted. The fields of columns 4 and 5 indicate the base time and the increment to that time that is permitted for the particular insertion. The field of the sixth column indicates the break scheduled within the prior time window. The field of the seventh column indicates the location of the ad in the break. The field of the eighth column indicates the duration of the ad. The field of the ninth column indicates the actual time of the beginning of the scheduling of the ad. The field of the tenth column indicates the actual duration of the ad as played. The field of the eleventh column indicates the position of the ad in the break. The field of the twelfth column indicates the ad played by identification number. The field of the last column indicates by the numeral 1 that the ad was played. The numeral 2 would have indicated that the ad was not aired. It can be seen from review of the sample verified file of Table 1B, that a verified file may not identify the client or the title of the ad. However other records available to the program, such as preferably the Schedule Log, can be compared with a verified file in order to determine the title of the ad and the name of the client.

As indicated in Figure 3B preferably an Air Check program has access to a verified file log returned to a traffic and billing system as well as to an associated Schedule Log. Given a client file, the Air Check system can automatically generate an “as-run” report for one or more advertising clients. The Air Check Program can automatically transmit the report to the client, if desired. Preferably the report is transmitted to the client on the day subsequent to the running of the spots. Tables 3B and 3C illustrate analogous client schedule and verified reports.

As indicated in Figure 3B, the Air Check Program preferably combines a schedule text file with a verification file, each typically text files, to produce a database with a client’s original schedule

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information along with "as-run" times for a particular date. The Air Check Program accesses a client database to determine clients to whom to transmit a verification report.

The foregoing disclosure and description of the invention are illustrative and explanatory thereof, and various changes in the size, shape, and materials, as well as in the details of the illustrated system may be made without departing from the spirit of the invention. The invention is claimed using terminology that depends upon a historic presumption that recitation of a single element covers one or more, and recitation of two elements covers two or more, and the like.